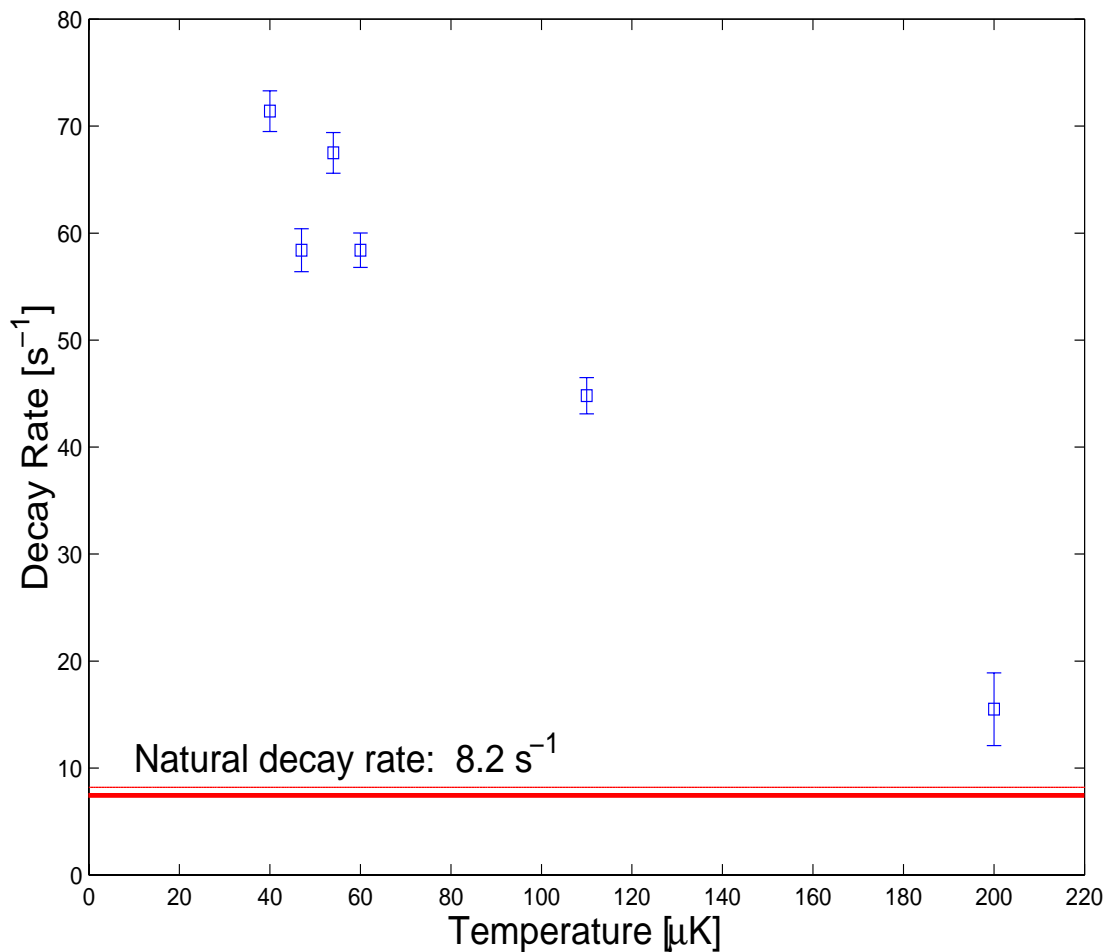


Preliminary Results

2S decay rates along the RF evaporation pathway



Both temperature and density of the sample change dramatically after RF evaporation begins. A significant decrease in the metastable lifetime is observed as evaporation proceeds.